

# Special Issue

## Research on Properties and Microstructure of Concrete Materials

### Message from the Guest Editors

This Special Issue aims to gather recent advances in the properties, microstructure, and performance of concrete and cementitious materials, with an emphasis on durability, sustainability, and engineering applications in buildings and infrastructure. The scope of this Special Issue covers original research articles and review papers on topics including (but not limited to) the following:

- Mechanical properties and performance of concrete materials;
- Microstructural characterization and multi-scale analysis of cementitious materials;
- Durability and degradation mechanisms under aggressive environments;
- Low-carbon cementitious materials and geopolymers;
- High-performance and multifunctional concrete materials;
- Concrete repair, strengthening, and rehabilitation techniques;
- Structure–property–performance relationships of concrete materials.

For more details:

[https://www.mdpi.com/journal/buildings/special\\_issues/1RQ9LDW8QS](https://www.mdpi.com/journal/buildings/special_issues/1RQ9LDW8QS)

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### Guest Editors

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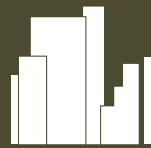
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### Deadline for manuscript submissions

10 September 2026



## Buildings

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## About the Journal

### Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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### Editor-in-Chief

Prof. Dr. David Arditi

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### Author Benefits

#### High Visibility:

indexed within SCIE (Web of Science), Scopus, Ei Compendex, Inspec, and other databases.

#### Journal Rank:

JCR - Q2 (Construction and Building Technology) /  
CiteScore - Q1 (Architecture)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.1 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).